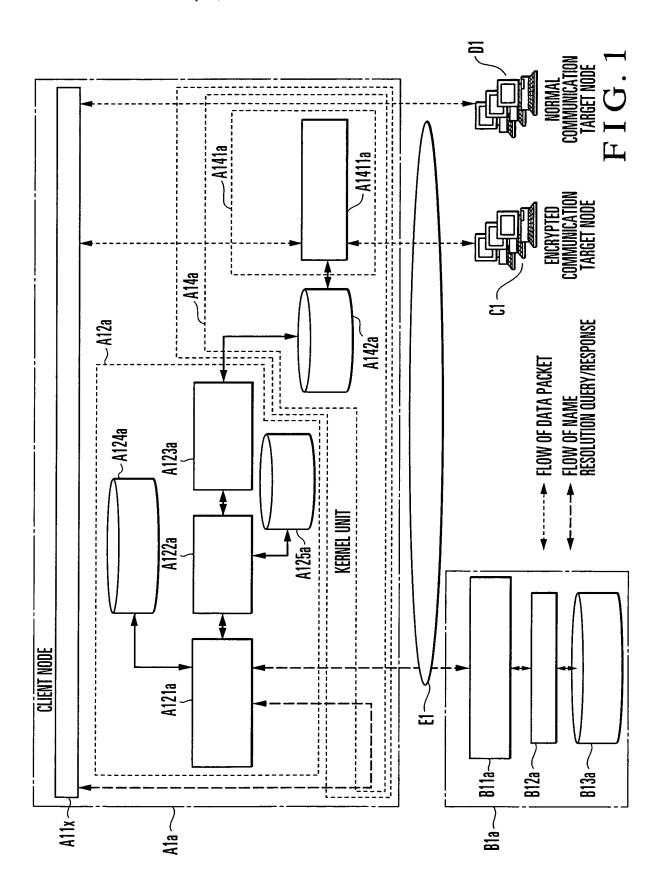
Application of Yuichi ISHIKAWA; Northito FUJITA;
Akio IIJIMA and Atsushi IWATA
ENCRYPTED COMMUNICATION METHOD
Assignee: NEC CORPORATION
Attorney Docket No. Q95944
July 12, 2006



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₽UJITA;

Akio IIJIMA and Atsushi IWATA

ENCRYPTED COMMUNICATION METHOD

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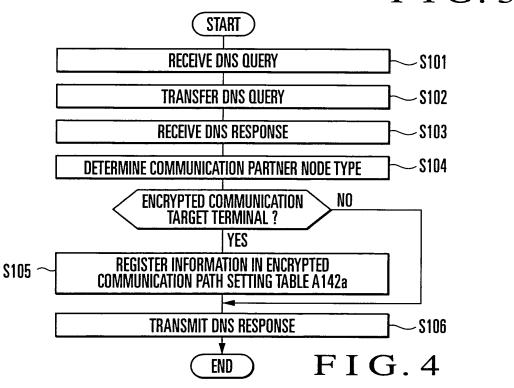
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CUG IDENTIFICATION INFORMATION	ENCRYPTED COMMUNICATION PATH SETTING INFORMATION							
DOMAIN NAME	COMMUNICATION PROTOCOL	DIGITAL CERTIFICATE ID	ENCRYPTION Algorithm	<u> </u>				
•••	•••	•••	•••]				
taro.nec.co.jp	SSL	10	3DES	1				
jiro.biglobe.ne.jp	IPSec	15	AES	1				
*.myfriends.com	SSL	11	DES	1				
*.myfamily.com	IPSec	12	3DES	1				
sato.*	SSL	13	DES	1				
.satofamily.	SSL	14	AES					
•••	•••	•••	•••					

F I G. 2

COMMUNICATION	ENCRYPTED COMMUNICATION PATH SETTING INFORMATION							
PARTNER IP Address	COMMUNICATION PROTOCOL	DIGITAL CERTIFICATE ID	ENCRYPTION ALGORITHM	~301				
•••	***							
133.11.64.24	IPSec	10	3DES	1				
19.23.43.13	IPSec	15	AES	1				
1.3.3.2	IPSec	11	DES					
•••	•••	•••						

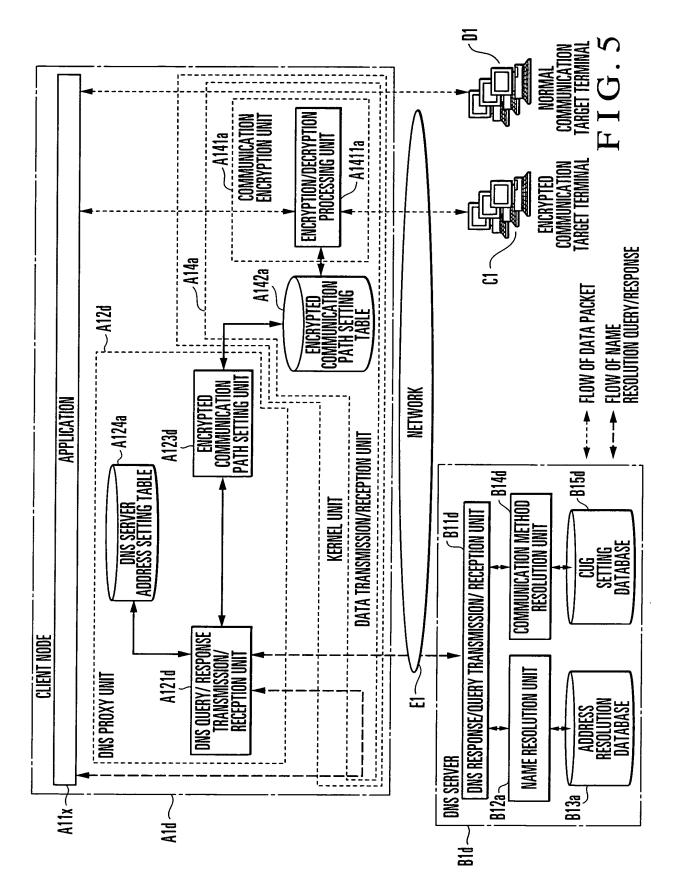
F I G. 3



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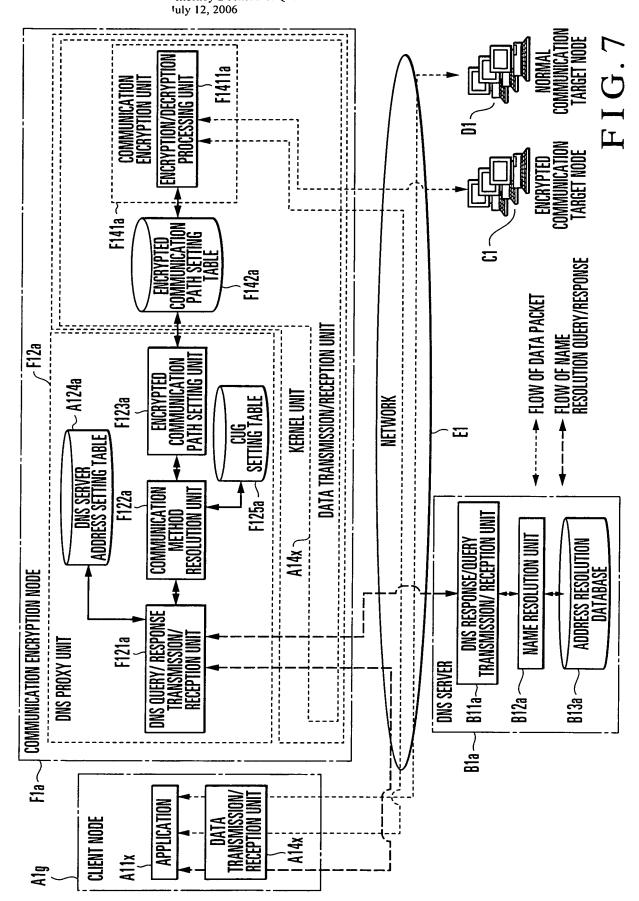
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) E03	700				~ 503							~ 504	3				9		
CIFICATIONS	ENCRYPTION ALGORITHM	30ES	AES	DES	•		CIFICATIONS	ENCRYPTION ALGORITHM	30ES	AES	OES			CIFICATIONS	ENCRYPTION ALGORITHM	30ES	AES		FIG
Table 10 : 1 Encrypted communication Path Specifications	DIGITAL CERTIFICATE ID	jinji.nec.com	jinji-soumu.nec.com	jinji-keiri.nec.com	:	Table ID: 2	ENCRYPTED COMMUNICATION PATH SPECIFICATIONS	DIGITAL CERTIFICATE ID	soumu.nec.com	soumu-jinji.nec.com	jinji-keiri.nec.com		Table ID : n	ENCRYPTED COMMUNICATION PATH SPECIFICATIONS	DIGITAL CERTIFICATE ID	satofamily	sato-suzukifamily	•	
	COMMUNICATION PROTOCOL DIGITAL CERTIFICATE ID ENCRYPTION ALGORITHM	TSS	IPSec	PSec	•		CHCRYPTED CO	COMMUNICATION PROTOCOL DIGITAL CERTIFICATE ID ENCRYPTION ALGORITHM	ISS	nPSec sec	PS _{6c}	•••		OO OOLOOO	COMMUNICATION PROTOCOL DIGITAL CERTIFICATE ID	ISS	IPS _{ec}	•••	
CUG IDENTIFICATION INFORMATION	DOMAIN NAME	*.jinji.nec.com	*soumu.nec.com	*.keiri.nec.com			CUG IDENTIFICATION INFORMATION	DOMAIN NAME	*.soumu.nec.com	*.jinji.nec.com	*.keiri.nec.com	*		CUG IDENTIFICATION INFORMATION	DOMAIN NAME	*.satofamily.com	*.suzukifamily.com		
		_						<i>/</i>	Δ,				 		_				
						!	Table ID		2	•	u								
				£04	IOC /	CLIENT NODE	IDENTIFICATION INFORMATION IP ADDRESS	1.2.3.4	5.6.7.8	•	133.11.23.24	•							

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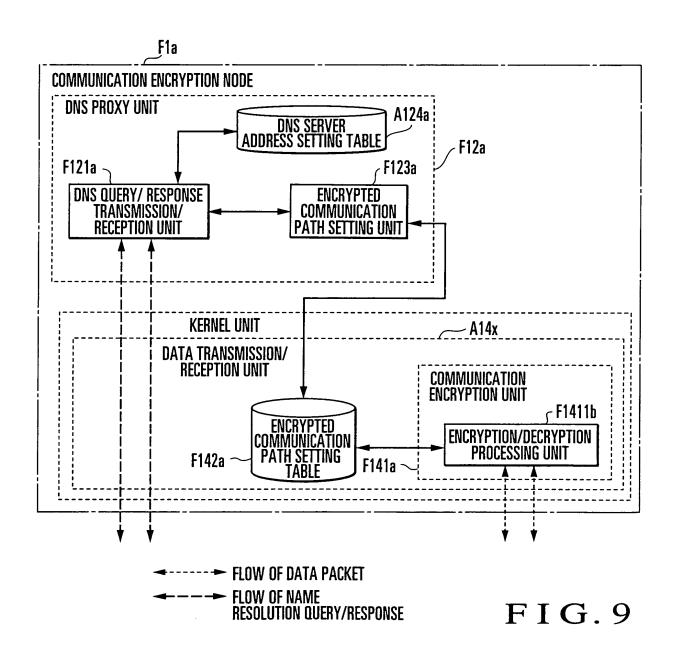
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INTERCEPT	COMMUNICATION	ENCRYPTED COMMUNICATION PATH SETTING INFORMATION							
ADDRESS	PARTNER IP Address	COMMUNICATION PROTOCOL	DIGITAL CERTIFICATE ID	ENCRYPTION Algorithm					
•••	•••		***	•••					
fe80::3090	aa91::1001	SSL	10	3DES					
fe81::3091	bb92::1002	IPSec	15	AES					
•••	•••	•••	***	•••					

F I G. 8

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FIG. 10 A1311x -ENCRYPTION/DECRYPTIC PROCESSING UNIT DATA TRANSMISSION/RECEPTION UNIT COMMUNICATION ENCRYPTION UNIT COMMUNICATION ENCRYPTION MODULE NETWORK A1312x A131x~ A14x \ KERNEL UNIT É A132x ◆-----FLOW OF DATA PACKET A1x -CLIENT NODE COMMUNICATION PATH Setting information ALGORITHM:DES Digital Certificate ID:11 PROTOCOL:SSI

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